CLAIMS

- 1. An ocular lens material comprising at least one kind of a compound (A) having an ethylenically unsaturated group and polydimethylsiloxane structure through a urethane bond and at least one kind of a pyrrolidone derivative (B) in which a polymerizable group is a methylene group.
- An ocular lens material according to Claim 1, comprising
 5 to 60 % by weight of the pyrrolidone derivatives in which the polymerizable group is a methylene group.
 - 3. An ocular lens material according to Claim 1 or 2, wherein the pyrrolidone derivatives in which the polymerizable group is a methylene group is 1-alkyl-3-methylene-2-pyrrolidone.
 - 4. An ocular lens material according to Claim 3, wherein the 1-alkyl-3-methylene-2-pyrrolidone (B) is 1-methyl-3-methylene-2-pyrrolidone.

20

15

5. An ocular lens material according to Claim 1 or 2, wherein at least one of the pyrrolidone derivatives in which the polymerizable group is a methylene group is 1-alkyl-5-methylene-2-pyrrolidone.

25

6. An ocular lens material according to Claim 5, wherein the 1-alkyl-5-methylene-2-pyrrolidone (B) is 1-methyl-5-methylene-2-

pyrrolidone.

- 7. An ocular lens material according to Claim 1 or 2, wherein at least one of the pyrrolidone derivatives in which the polymerizable group is a methylene group is 5-alkyl-3-methylene-2-pyrrolidone.
- 8. An ocular lens material according to Claim 7, wherein the 5-alkyl-3-methylene-2-pyrrolidone (B) is 5-methyl-3-methylene-2
 10 pyrrolidone.
 - 9. An ocular lens material according to Claim 1, wherein the repeating number of siloxane of the polydimethylsiloxane structure in a compound (A) having ethylenically unsaturated groups and polydimethylsiloxane structure through a urethane bond is 10 to 100.
 - 10. An ocular lens material according to Claim 1, 2, 3, 4, 5, 6, 7, 8 or 9, wherein tensile modulus is 0.2 to 0.8 MPa and stress relaxation under loading a fixed load for 30 seconds is 8 to 15 %.

20

- 11. An ocular lens material according to Claim 1, 2, 3, 4, 5,6, 7, 8 or 9, wherein water content is 10 to 60 % by weight.
- 12. An ocular lens material according to Claim 1, 2, 3, 4, 5, 6, 7, 8 or 9, wherein water content is 32 to 55 % by weight.
 - 13. An ocular lens material according to Claim 1, wherein

- (C) a silicone compound other than the compound (A) having ethylenically unsaturated groups and polydimethylsiloxane structure through a urethane bond is contained.
- 14. An ocular lens material according to Claim 13, wherein the silicone compound (C) is tris(trimethylsiloxy)silylpropyl (meth)acrylate.
- 15. An ocular lens material according to Claim 1 or 13, wherein a N-substituted acrylamide (D) is further comprised.
 - 16. An ocular lens material according to Claim 15, wherein the N-substituted acrylamide (D) is at least one of N-substituted acrylamides selected from the group consisting of N,N-dimethyl acrylamide, N,N-diethyl acrylamide, acryloyl morpholine, N-isopropyl acrylamide and N-(2-hydroxyethyl) acrylamide.

15

20

25

17. An ocular lens material according to Claim 1, 13 or 15, wherein at least one of a crosslinking agent is further comprised.

18. A lens for the eyes comprising the ocular lens material according to 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 or 17.

- 19. A method for preparing an ocular lens material, comprising
 - a) a step of obtaining a mixed solution comprising at least one kind of a compound (A) having ethylenically unsaturated groups and

polydimethylsiloxane structures through a urethane bond and a hydrophilic monomer (B) comprising at least one kind of a pyrrolidone derivative in which a polymerizable group is a methylene group and an photo polymerization initiator and/or a thermal polymerization initiator,

- b) a step of introducing said mixed solution to a mold,
- c) a step of obtaining an ocular lens material cured by irradiating UV light on and/or heating the mixed solution in said mold,

5

10

15

20

- d) a step of carrying out surface treatment to said ocular lens material after demolding said ocular lens material to impart hydrophilicity and deposit resistance,
- e) a step of removing an unreacted component from said ocular lens material, and
 - f) a step of hydrating said ocular lens material.
- 20. A method for preparing the ocular lens material according to Claim 19, comprising at least one of the compounds (A) having ethylenically unsaturated groups and polydimethylsiloxane structures through a urethane bond, at least one of the pyrrolidone derivatives (B) in which the polymerizable group is a methylene group, the silicone compound (C) and the N-substituted acrylamide (D) in the mixed solution.
- 21. A method for preparing the ocular lens material according to Claim 19 or 20, containing a crosslinking agent in the mixed solution.
 - 22. A method for preparing the ocular lens material

according to Claim 19, 20 or 21, containing at least one of polymerizable or non polymerizable ultraviolet absorbents and/or at least one of polymerizable or non polymerizable dyes in the mixed solution.

- 23. A method for preparing the ocular lens material according to Claim 19, 20, 21 or 22, comprising 0.1 to 5 % by weight of a water-soluble organic solvent.
- 24. A method for preparing the ocular lens material according to Claim 23, wherein the water-soluble organic solvent is a water-soluble organic solvent selected from alcohols having 1 to 4 carbons, acetone, methyl ethyl ketone, dimethylformamide, dimethylsulfoxide, acetonitrile and N-methyl-2-pyrrolidone.
 - 25. A method for preparing the ocular lens material according to Claim 19, wherein the surface treatment is plasma treatment.

15

- 26. A method for preparing the ocular lens material according to Claim 25, wherein oxygen or a mixture of oxygen is used in the plasma treatment.
 - 27. A method for preparing the ocular lens material according to Claim 26, wherein a mixture of oxygen and water is used in the plasma treatment.
 - 28. A method for preparing the ocular lens material

according to Claim 26, wherein a mixture of oxygen and tetrafluoromethane is used in the plasma treatment.

29. A method for preparing the ocular lens material according to Claim 26, wherein a mixture of oxygen and organic silane is used in the plasma treatment.

5

10

- 30. A method for preparing the ocular lens material according to Claim 29, wherein the organic silane is tetramethoxysilane.
- 31. A method for preparing the ocular lens material according to Claim 26, wherein a mixture of oxygen and methane is used in the plasma treatment.
- 32. A method for preparing the ocular lens material according to Claim 26, wherein a mixture of oxygen, nitrogen and methane is used in the plasma treatment.
- 33. A method for preparing the ocular lens material according to Claim 19, wherein the surface treatment is a treatment according to the coating method of a hydrophilic polymer coating.
 - 34. A method for preparing the ocular lens material according to Claim 33, wherein the coating method is a plasma polymerization method of a hydrophilic monomer.
 - 35. A method for preparing the ocular lens material

according to Claim 33, wherein the coating method is a plasma-induced graft polymerization.

36. A method for preparing the ocular lens material according to Claim 19, further comprising (g) a step of coloring the ocular lens material by using a vat dye.